

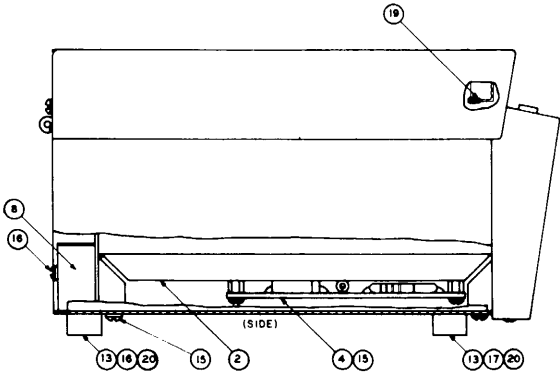
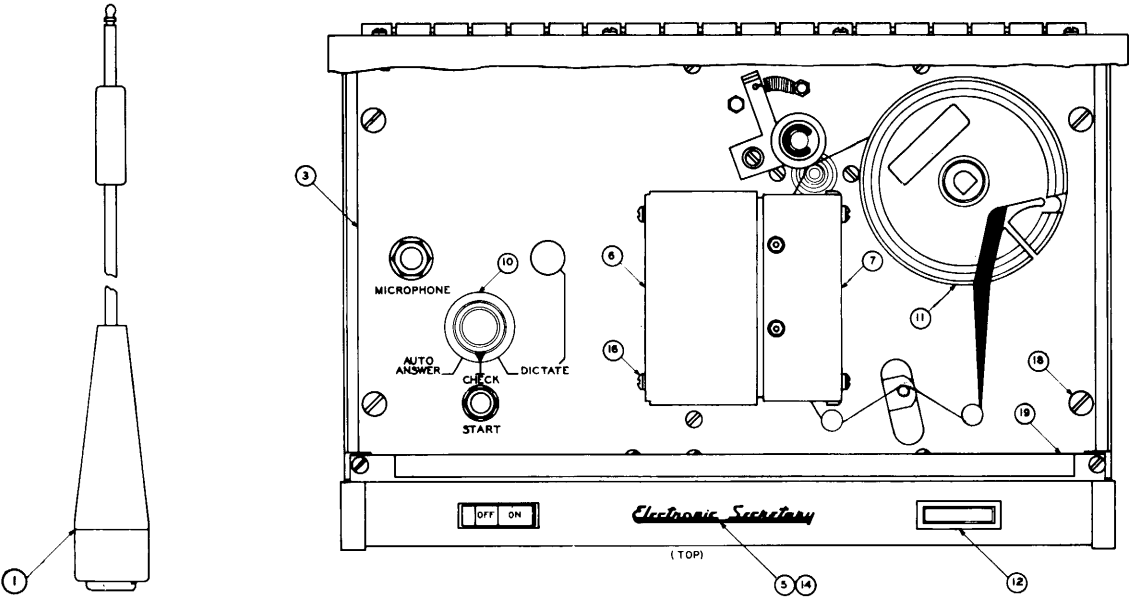
ELECTRONIC SECRETARY® MODEL AO-3
REPLACEMENT PARTS

1. GENERAL

- 1.01 This Section is reissued to make changes indicated in Figure 6.
- 1.02 This section contains ordering information

for the replaceable parts of the Electronic Secretary® Model AO-3. Each replaceable part is listed with its order number and quantity required per instrument. Each part listing is preceded by an item number which is keyed to a numbered callout in an associated illustration.

® Registered Trademark, Automatic Electric Company.



ITEM	PART NO.	QTY	DESCRIPTION		
1	WW-4342-1B	1	ASS'Y. MICROPHONE		
2	WW-5796-1E	1	ASS'Y. WRG. CHASSIS (SEE FIG. 12)		
3	WW-5799-1D	1	ASS'Y. WRG. MOTOR (SEE FIG. 5)		
4	WW-5152-1D	1	ASS'Y. CIRCUIT BOARD (SEE FIG. 11)		
5	WW-3424-10K	1	ESCUTCHEON		
6	WW-5050-11A	1	COVER, FRONT		
7	WW-5051-11A	1	COVER, TERMINAL BLOCK		
8	WW-5056-11A	1	COVER, TELEPHONE		
9	WW-3591-12D	1	CABINET (SEE FIG. 2)		
10	WW-5428-29A	1	KNOB		
11	WW-5088-44A	1	CARTRIDGE, TAPE (SEE NOTE 3)		
12	WW-5082-46A	1	JEWEL		
13	WW-1034-48A	4	FEET, RUBBER		
14	WW-1468-2	2	NUT, SPEED		
15	WW-3089-3	7	6-32 X 1/8 BHM5		
16	WW-3600-3	8	6-32 X 1/8 BHM5		
17	WW-1483-3	2	6-32 X 1/8 FHM5		
18	WW-1408-3	4	10-32 X 1/2 BHM5		
19	WW-2220-48A	2	CHANNEL, RUBBER		
20	WW-1452-2	4	NUT, HEX. 6-32 X 1/2		

NOTES:
1. LUGS OF ITEM 12 TO BE BENT BACK AGAINST FRONT PANEL TO RETAIN.
2. ITEMS 19 TO BE CEMENTED IN PLACE. NO ADHESIVE TO SHOW OR SURFACE TO BE DAMAGED FROM SAME.
3. REPLACES 15-756 AT SERIAL NO. 48001

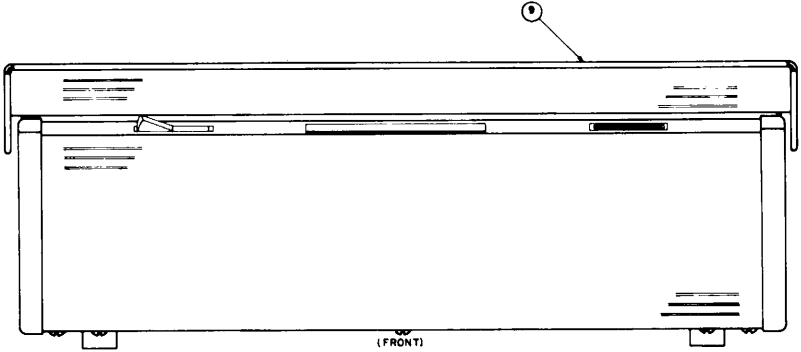


Figure 1. Final assembly.

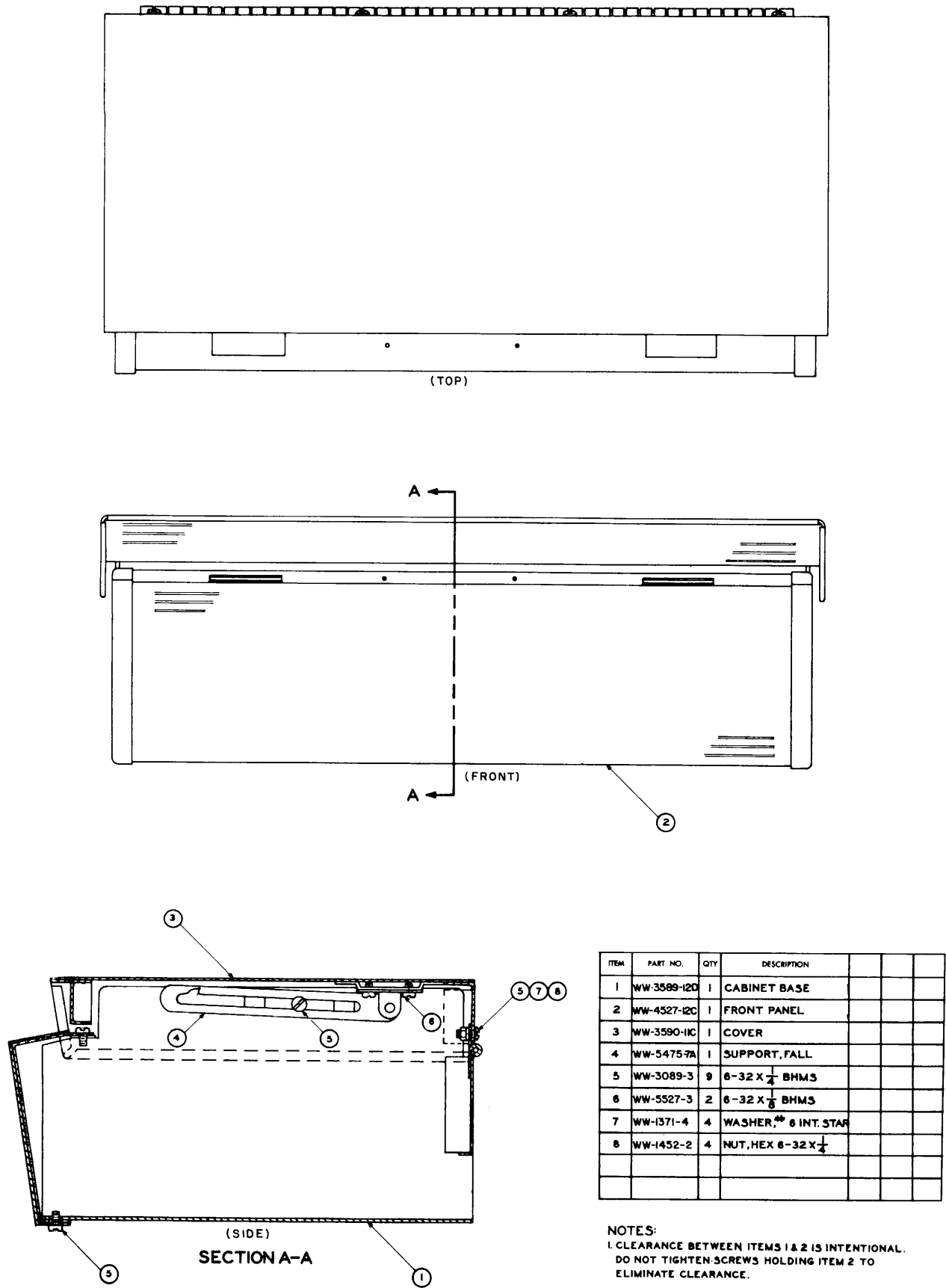
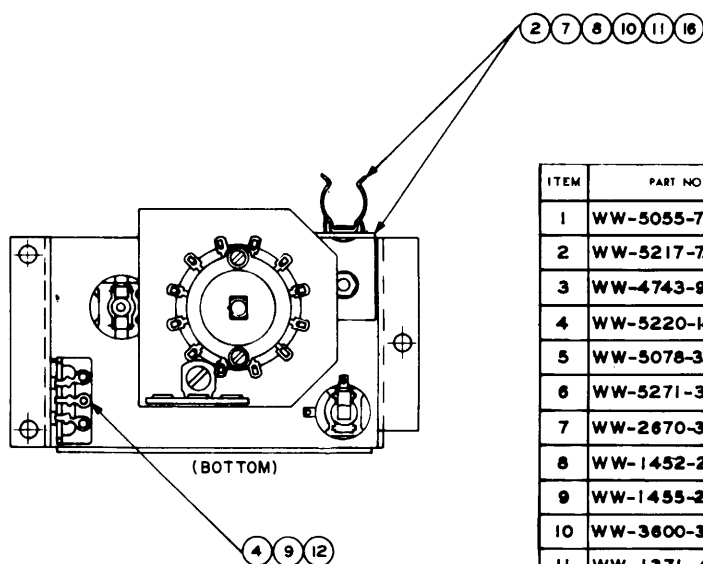


Figure 2. Cabinet, WW-3591-12D (part of final assembly, figure 1).



ITEM	PART NO	QTY	DESCRIPTION			
1	WW-5055-7B	1	FRAME, SWITCH			
2	WW-5217-7A	1	BRACKET, LAMP			
3	WW-4743-9	1	JACK, MIC.			
4	WW-5220-14	1	POTENTIOMETER, 10K.			
5	WW-5078-32C	1	SWITCH, ROTARY			
6	WW-5271-32A	1	SWITCH, PUSH BUTTON			
7	WW-2670-34A	1	CLAMP			
8	WW-1452-2	2	NUT, HEX. 6-32			
9	WW-1455-2	4	NUT, HEX. $\frac{3}{8}$ -32			
10	WW-3600-3	2	SCREW, 6-32 x $\frac{3}{16}$ SH.			
11	WW-1371-4	2	WASHER, NO.6 I.STAR			
12	WW-1363-4	4	WASHER, $\frac{3}{8}$ FLAT			
13	WW-1357-4	1	WASHER, $\frac{3}{8}$ FIBRE			
14	WW-1356-4	1	WASHER, $\frac{3}{8}$ SHOULDER			
15	WW-1356-4	1	WASHER, $\frac{1}{4}$ I. STAR			
16	WW-1025-5	1	RIVET (FOR REPLACEMENT ORDER ITEMS 8,10,11)			
17	WW-1651-24	1	LUG, SOLDER			
18	WW-1203-26	1	TERM. STRIP AGA			

NOTE:

1. ITEM NO.5 TO BE WIRED BEFORE ASSEMBLY TO ITEM NO.1. REFER TO I 4517.
2. USED ON: WW-4517-1E
WW-5722-1E
WW-5796-1E

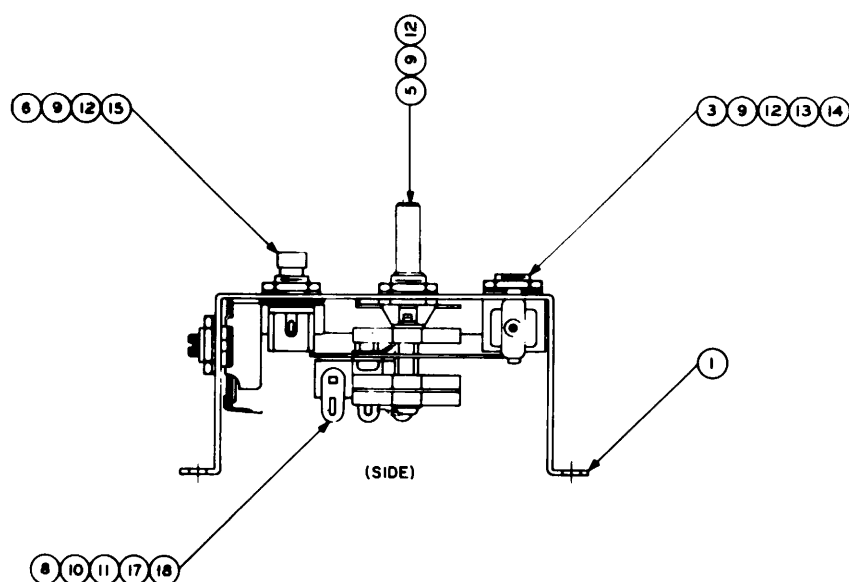


Figure 3. Switchframe mounting assembly, WW-5106-1C (part of wiring-chassis, figure 12).

SECTION 997-400-800
ISSUE 2

ITEM	PART NO.	QTY	DESCRIPTION			
1	WW-5794-22D	1	CHASSIS, ASS'Y TT-3			
2	WW-5063- 7A	1	BRACKET, SEL. BRIDGE			
3	WW-1925 - 5	12	RIVET			
4	WW-1121 - 9	1	SOCKET, 8 PIN			
5	WW-1106 - 9	1	SOCKET, 4 PIN			
6	WW-1651 -24	1	LUG, GROUND			
7	WW-1371 - 4	23	WASHER, NO.6 I. STAR			
8	WW-1009 - 5	1	GROMMET $\frac{3D}{8}$			
9	WW-1008 - 5	2	GROMMET $\frac{1D}{2}$			
10	WW-1205 -26	6	TERM. STRIP AADAA			
11	WW-3427 -26	1	TERM. STRIP AAGAA			
12	WW-3407 - 9	1	FUSE HOLDER			
13	WW-3397 - 3	3	SCREW, 6-32x $\frac{3}{8}$ BHM.			
14	WW-3600 - 3	12	SCREW, 6-32x $\frac{5}{16}$ BHM.			
15	WW-1452 - 2	10	NUT, 6-32 x $\frac{1}{4}$ HEX.			
16	WW -4231-20	1	CHOKE FILTER			
17	WW-5065--20	1	TRANSFORMER, POWER			
18	WW-1353 - 4	1	WASHER, NO.6 FLAT			
19	WW-5793-11B	1	CHASSIS HOUSING			
20	WW-2670 -34	1	CLAMP, CAPACITOR			
21	WW-5073 -26	1	TERMINAL BLOCK			
22	WW-1095 -34	1	CABLE CLAMP			
23	WW-2054 -35	1	BUSHING, STRAIN			
24	WW-1402 - 3	2	SCREW, 4-36x $\frac{3}{8}$ RHM.			
25	WW-3392 - 4	4	WASHER, NO.4 I. STAR			
26	WW-1451 - 2	4	NUT, 4-36x $\frac{1}{4}$ HEX.			
27	WW-5061 -36	6	PILLAR, $\frac{1}{4}$ HEX.			
28	WW-4227 - 9	1	SOCKET, P.C. BOARD			
29	WW-1403 - 3	2	SCREW, 6-32x $\frac{1}{2}$ RHM.			
30	WW-1354 - 4	4	WASHER, NO.6 S. LOCK			
31	WW-5068 -20	1	COIL, LOADING			
32	WW-5066 -20	1	TRANSFORMER, LINE			
33	WW-2061 -37	1	RECTIFIER, SEL. BRIDGE			
34	WW-1429 - 3	1	SCREW, 6-32x $1\frac{5}{8}$ RHM.			
35	WW-1208 -26	1	TERM. STRIP DAA			
36	WW-1204 -26	1	TERM. STRIP AADA			
37	WW-5067 -20	1	TRANSFORMER			
38	WW-4252 -49	1	RELAY, DC. 10,000 Ω			
39	WW-5079 -49	1	RELAY, DC. 1000 Ω			
40	WW-5080 -49	1	RELAY, DC. 6500 Ω			
41	WW-3089 - 3	6	SCREW, 6-32x $\frac{1}{4}$ BHM.			
42	WW-1217 -26	1	TERM. STRIP DA			
43	WW-4569 -37	1	DIODE, ZENER			
44	WW-4946 - 4	1	WASHER, NO.10 I. STAR			
45	WW-1469 - 2	1	NUT, 10-32x $\frac{3}{8}$ HEX.			
46	WW-5223 - 9	2	SOCKET, TRANSISTOR			
47	WW-5185 - 3	4	SCREW, 2-56x $\frac{3}{16}$ RHM.			
48	WW-1374 - 4	4	WASHER, NO.2 I. STAR			
49	WW-1467 - 2	4	NUT, 2-56x $\frac{3}{16}$ HEX.			
50	WW-1104 - 9	1	FUSE HOLDER			
51	WW-5393- 53A	3	INSULATOR			
52	WW-5168-27C	1	NAME PLATE			
53	WW-1352 - 4	4	WASHER, NO.4 FLAT			
54	WW-1372 - 4	1	WASHER, RUBBER			
55	WW-1373 - 4	1	WASHER, $\frac{1}{2}$ " I. STAR			
56	WW-1462 - 2	1	NUT, HEX. $\frac{1}{2}$ " - 24			

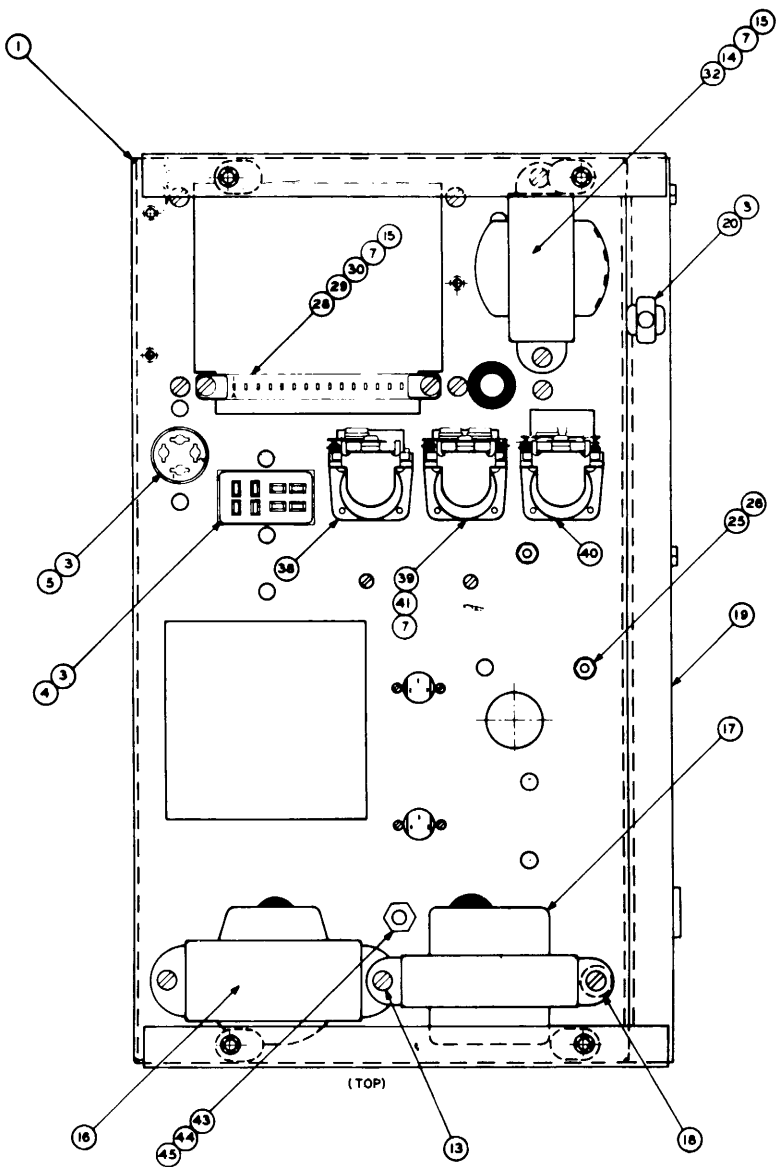
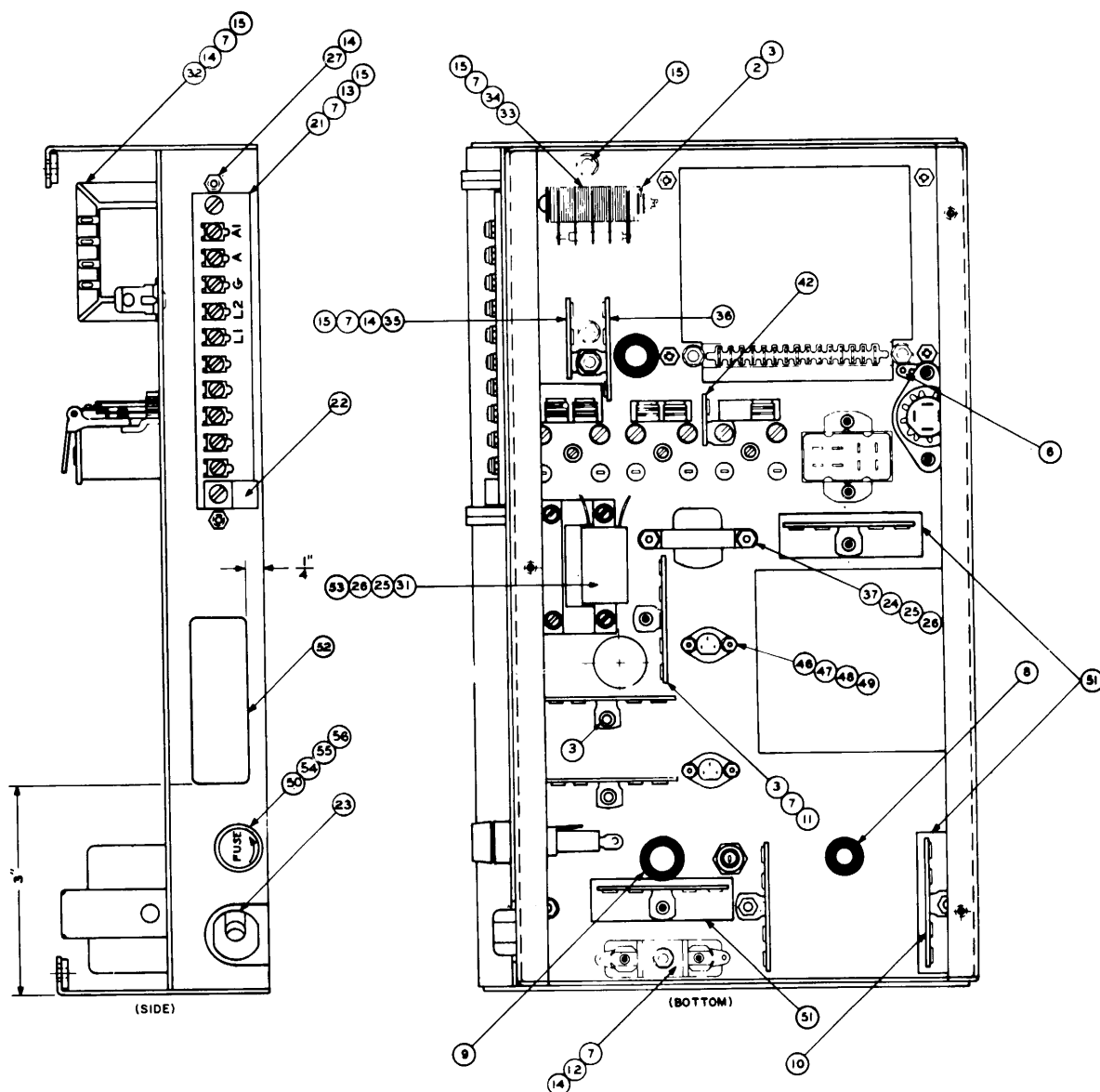


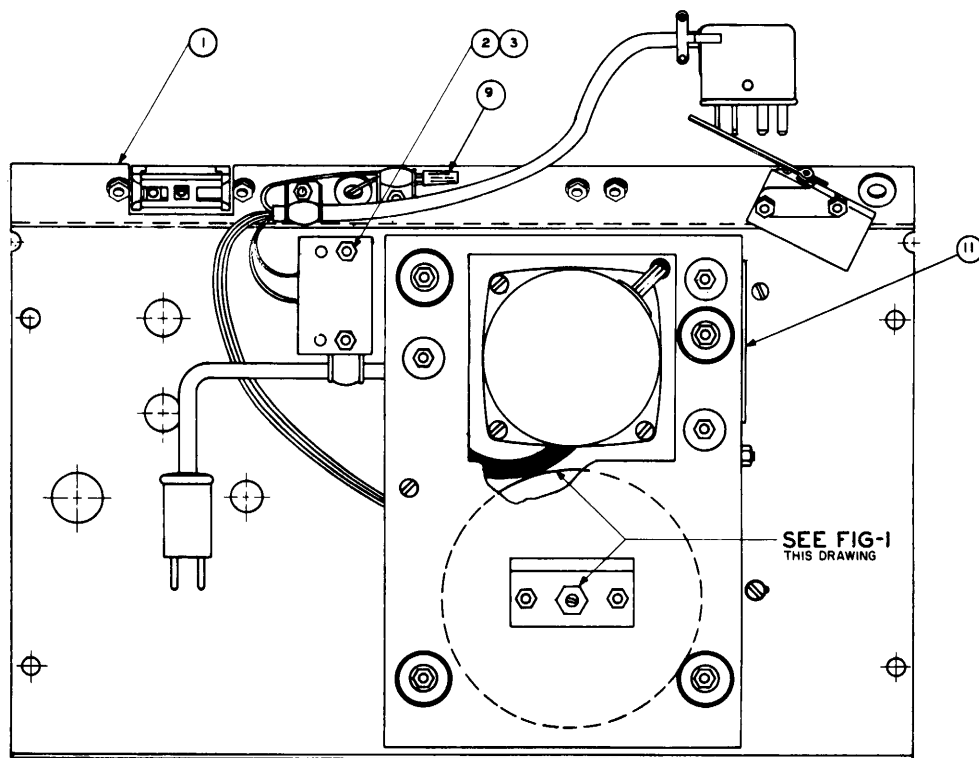
Figure 4. Chassis assembly, WW-5795-1D (part of wiring-chassis, figure 12).



NOTES:

- 1.- ITEMS 1 THROUGH 18 TO BE ASSEMBLED IN ORDER LISTED.
- 2.- RIVETED TERMINAL STRIPS TO BE PARALLEL WITH CHASSIS EDGES AS GAUGED BY EYE.
- 3.- LUGS ON ITEM 5 TO BE SHORTENED TO $\frac{1}{4}$ " LENGTH EXPOSED FROM MOLDED HOUSING (ONE WIRE HOLE REMAINING) PRIOR TO WIRING.
- 4.- ITEM 50 TO BE POSITIONED SO THAT SIDE LUG EXTENDS ALONG HORIZONTAL AXIS WITHIN 5° (GAUGED BY EYE) AS SHOWN.
- 5.- REPLACES ID4516 AT SERIAL NO. 48001

Figure 4. (Continued.)



NOTES: 1. ITEM 11 TO BE INSTALLED OVER C-25 AFTER WIRING.
2. THIS DWG. REPLACES ID4523 AT SER. NO. 48001.

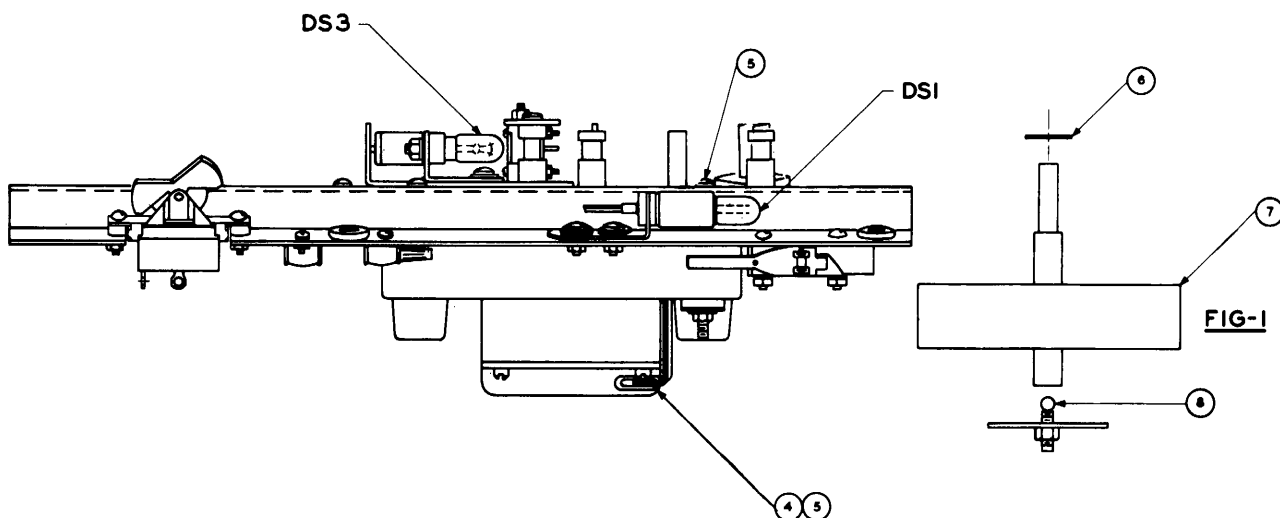


Figure 5. Motorboard wiring assembly, WW-5799-1D (part of final assembly, figure 1).

ITEM	PART NO.	QTY	DESCRIPTION		
1	WW-5798-1	1	ASS'Y. MOTORBOARD (SEE FIG. 6)		
2	WW-5395-53A	1	INSULATOR, TER. BLOCK		
3	WW-1452-2	2	NUT, 6-32 X 1/4 HEX.		
4	WW-5797-1	1	ASS'Y. MOTOR FRAME (SEE FIG. 10)		
5	WW-3600-3	4	SCREW, 6-32 X 5/16 BHM.		
6	WW-1357-4	4	WASHER, FIBRE		
7	WW-3147-1B	1	ASS'Y. FLYWHEEL		
8	WW-5058-35A	1	BEARING, BALL THRUST		
9	WW-1471-2	1	NUT, WIRE		
10	WW-1679-24	2	LUG, SPADE		
11	WW-5838-53A	1	INSULATOR		
DS1	WW-1169-51	1	BULB, NE51 H		
DS3	WW-3114-46	1	BULB, 1047		
Z	WW-4756-30	8	SLEEVING (MINIMUM ORDER 3 FEET)		
CA3	WW-5528-1	1	ASSY. CABLE		
CA4	WW-5496-1A	1	ASSY. CABLE		
D1	WW-1256-25	1	RED, 6" LONG		
D2	WW-2871-25	1	BROWN, 14" LONG		
	WW-5109-54D	REF.	SCHEMATIC		

MINIMUM ORDER
25 FEET PER ITEM

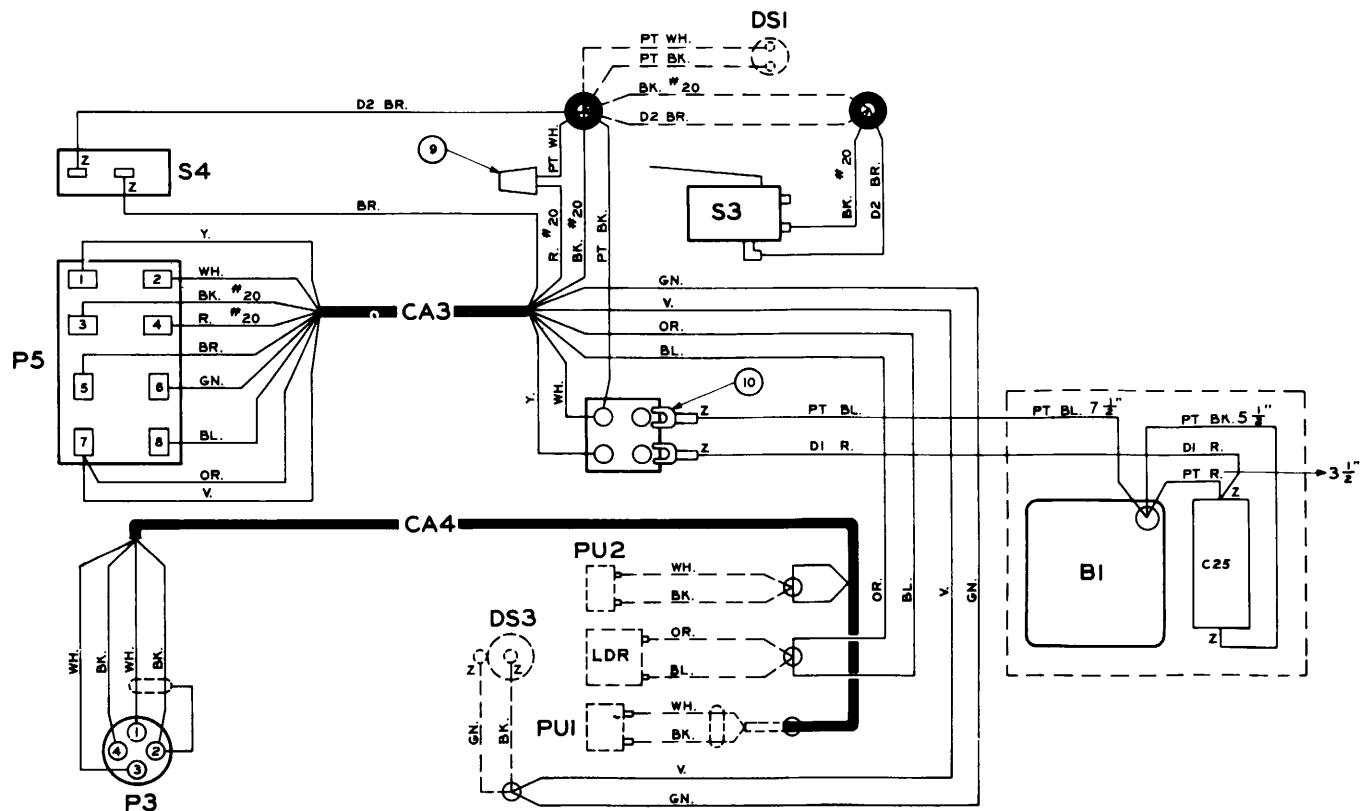


Figure 5. (Continued.)

SECTION 997-400-800
ISSUE 2

ITEM	PART NO.	QTY	DESCRIPTION		
1	WW-5801 -45	1	MOTORBOARD		
2	WW-5049-11B	1	HOUSING, BASE		
3	WW-5048 -45	1	PLATE, HEAD MTG.		
4	WW-5392 -44	1	HEAD, RECORD-PLAY		
5	WW-5184- 1B	1	ASS'Y,PHOTOCELL HSG.(SEE FIG.7)		
6	WW-4446 -44	1	HEAD, ERASE		
7	WW-5062 -7A	1	BRACKET, LAMP		
8	WW-1109 - 9	1	SOCKET, LAMP		
9	WW-3844 -1B	1	ASS'Y,PRESSURE ROLLER (SEE FIG.8)		
10	WW-5059-36A	1	SHAFT		
11	WW-2326 - 4	5	WASHER, FIBRE		
12	WW-3231 -33	1	SPRING		
13	WW-3238-35A	1	BEARING, SELF ALIGN.		
14	WW-3240-34A	2	RETAINER,BEARING		
15	WW-1047-36A	1	PILLAR,CARTRIDGE		
16	WW-5264-35A	1	SPACER,ANGLE		
17	WW-4124-34A	1	PIN,ROLL		
18	WW-5703-36A	2	PILLAR, TAPE GUIDE		
19	WW-5072 - 9	1	SOCKET		
20	WW-5077 -32	1	SWITCH, POWER SPST		
21	WW-3419-35A	2	SPACER, 3/16		
22	WW-5060 -36	2	PILLAR,TAPE GUIDE		
23	WW-1095 -34	2	CLAMP, CABLE 1/4		
24	WW-2123 -34	3	CLAMP, CABLE 1/4		
25	WW-1220 -26	1	BLOCK, TERMINAL		
26	WW-1403 - 3	5	SCREW, 6-32x1/2 RHM		
27	WW-3600 - 3	16	SCREW, 6-32x5/6 BHM		
28	WW-2860 - 3	2	SCREW, 6-32x3/4 BHM		
29	WW-2866 - 3	1	SCREW, 6-32x1 BHM		
30	WW-1362 - 4	4	WASHER, NO.6 FLAT 3/8		
31	WW-1353 - 4	2	WASHER, NO.6 FLAT 7/16		
32	WW-3089 - 3	2	SCREW, 6-32x1/4 BHM		
33	WW-1371 - 4	20	WASHER, NO.6 1.STAR		
34	WW-1452 - 2	15	NUT, HEX. 6-32x1/4		
35	WW-5185 - 3	2	SCREW, 2-56x3/16 RHM		
36	WW-5218-36A	1	PILLAR, STOP		
37	WW-5219-36A	2	PILLAR, SPRING		
38	WW-1009 - 5	2	GROMMET, 3/8		
39	WW-3500-32A	1	SWITCH		
40	WW-4273-36A	1	ACTUATOR		
41	WW-5394 - 3	2	SCREW, 4-36x3/4		
42	WW-3392 - 4	2	WASHER, NO.4 1.STAR		
43	WW-1451 - 2	2	NUT, HEX. 4-36x1/4		
44	WW-5395 -53	1	INSULATOR, TER.BLOCK		
45	WW-5396-53A	1	INSULATOR, SWITCH		
46	WW-5791 -56	1	TAPE TENSION ARM		
47	WW-3215-36K	1	SHAFT		
48	WW-5843 - 3	1	SCREW, 6-32x 1-1/4 BHM		
49	WW-5692 -36	1	PILLAR, TAPE TENSION		
50	WW-3232 -33	1	SPRING		
51	WW-5842 -46	1	JEWEL		
52	WW-5844 - 2	1	NUT, HEX.		
53	WW-6096 -45	1	PLATE, BEARING		

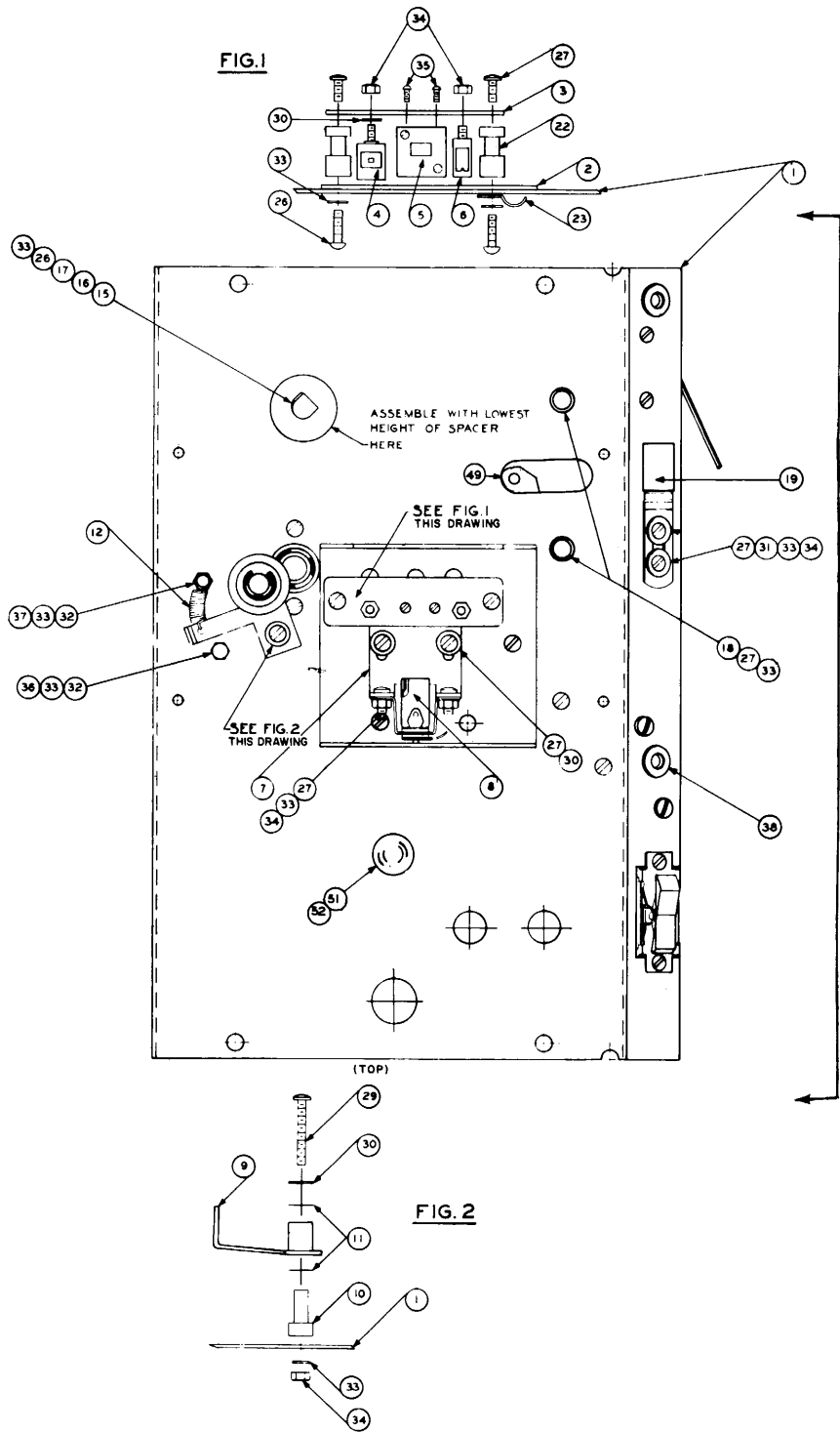


Figure 6. Motorboard assembly, WW-5798-1 (part of motorboard wiring assembly, figure 5).

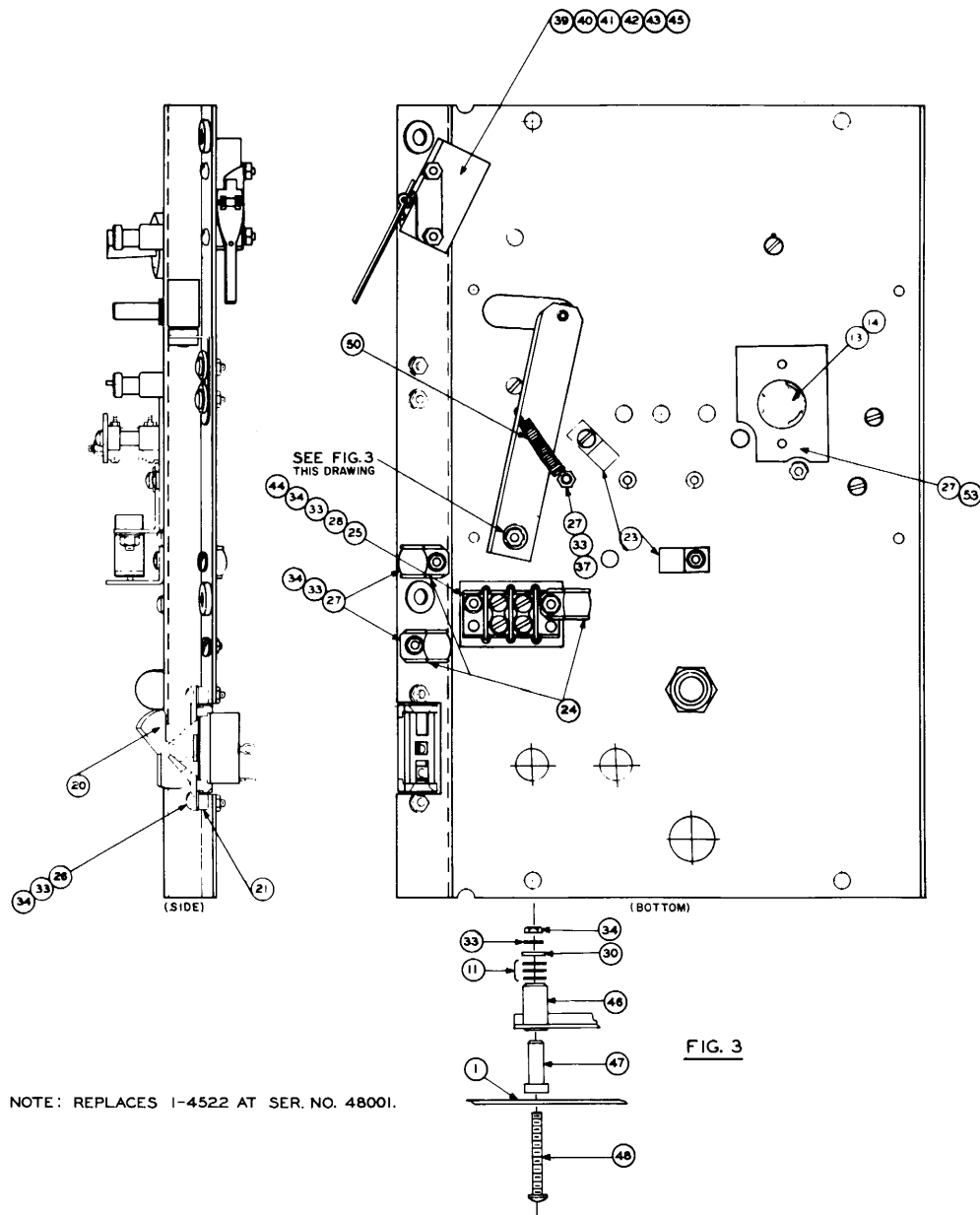


Figure 6. (Continued.)

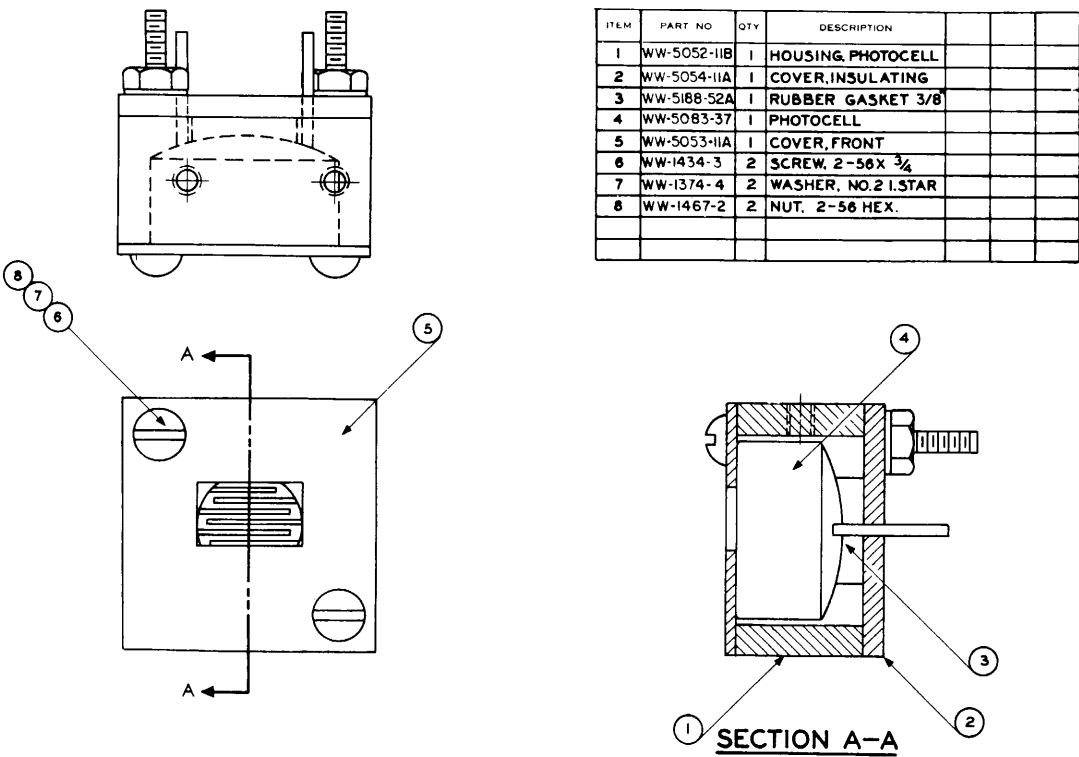


Figure 7. Photocell housing assembly, WW-5184-1B (part of motorboard assembly, figure 6).

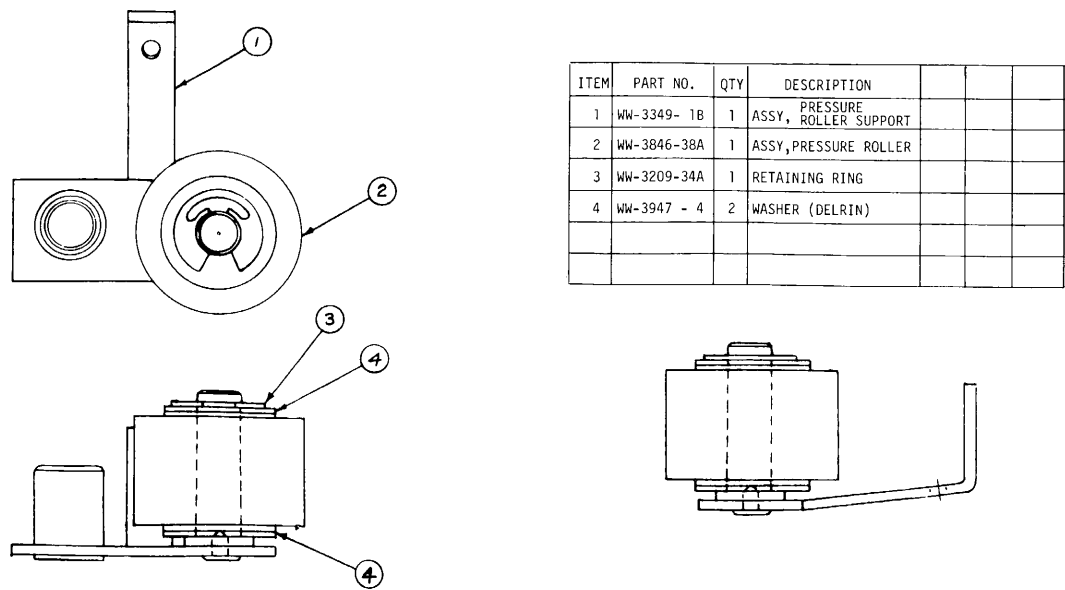
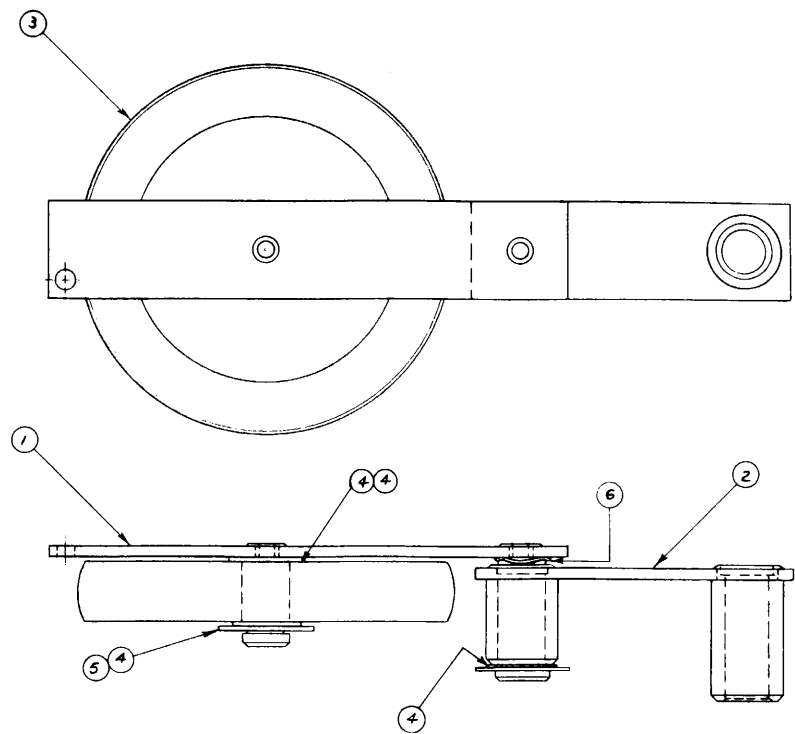


Figure 8. Pressure roller assembly, WW-3844-1B (part of motorboard assembly, figure 6).



ITEM	PART NO.	QTY	DESCRIPTION			
1	WW-3224- 1A	1	ASS'Y-IDLER SUPPORT			
2	WW-3223- 1A	1	ASS'Y-PIVOT BRACKET			
3	WW-3229-38B	1	ASS'Y-WHEEL,DR.IDLER			
4	WW-2326 - 4	4	WASHER, FIBRE FLAT			
5	WW-1061- 34	2	CLIP, HAIR PIN			
6	WW-2525 - 4	1	WASHER, TENSION			

Figure 9. Idler linkage assembly, WW-3268-1B (part of motorframe assembly, figure 10).

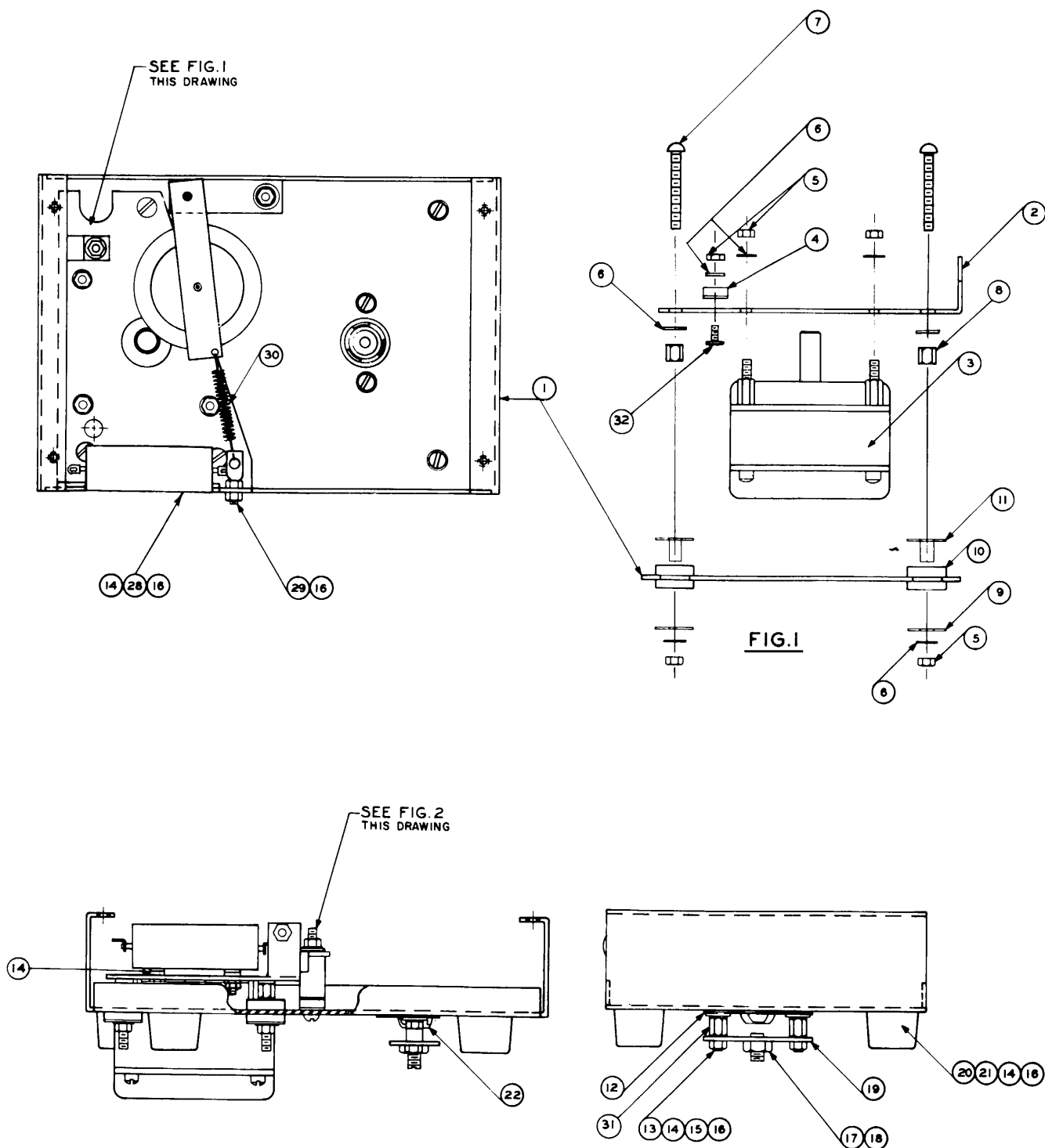


Figure 10. Motorframe assembly, WW-5797-1 (part of motorboard wiring assembly, figure 5).

ITEM	PART NO.	QTY	DESCRIPTION			
1	WW-4518-7C	1	FRAME, MECHANISM			
2	WW-5834-45B	1	PLATE, MOTOR MTG.			
3	WW-5057-44C	1	MOTOR			
4	WW-5431-34A	1	CLAMP, CABLE			
5	WW-1454-2	7	NUT, 8-32 NC-2			
6	WW-1393-4	10	WASHER, NO. 8 I. STAR			
7	WW-5518-3	3	SCREW, 8-32 x 1 RHM			
8	WW-5835-36	3	PILLAR, 1/4 HEX x 1/4			
9	WW-1375-4	3	WASHER, FLAT 9/16 O.D.			
10	WW-2517-5	3	GROMMET			
11	WW-1068-5	3	EYELET			
12	WW-3240-34	2	RETAINER, BEARING			
13	WW-3734-3	2	SCREW, 6-32 x 5/8 R.H.M.			
14	WW-1371-4	13	WASHER, NO. 6 I. STAR			
15	WW-1353-4	2	WASHER, FLAT 7/16 O.D.			
16	WW-1452-2	11	NUT, 6-32 NC-2			
17	WW-5848-3	1	SCREW, 10-32 x 3/8 SET			
18	WW-1469-2	1	NUT, 10-32 NF-2			
19	WW-4520-45A	1	PLATE, TRUST BEARING			
20	WW-5166-48	4	FOOT			
21	WW-1403-3	4	SCREW, 6-32 x 1/2 R.H.M.			
22	WW-3238-35A	1	BEARING			
23	WW-1362-4	2	WASHER, 3/8 O.D. FLAT			
24	WW-2326-4	3	WASHER, FIBRE 1/4 I.D.			
25	WW-3215-36K	1	SHAFT, TAPE TRANS.			
26	WW-3268-1B	1	ASSY. IDLER LINKAGE (SEE FIG. 9)			
27	WW-1425-3	1	SCREW, 6-32 x 1/4 R.H.M.			
28	WW-5086-17	1	CAPACITOR, IMF 400V.			
29	WW-5167-3	1	STUD, TENSION ADJUST			
30	WW-3230-33A	1	SPRING			
31	WW-5847-36	2	PILLAR, 1/4 HEX x 9/32			
32	WW-3601-3	1	SCREW, 8-32 x 3/8 BHM			
33	WW-1651-24	1	LUG, SOLDER NO. 6			
34	WW-1652-24	1	LUG, SOLDER NO. 8			

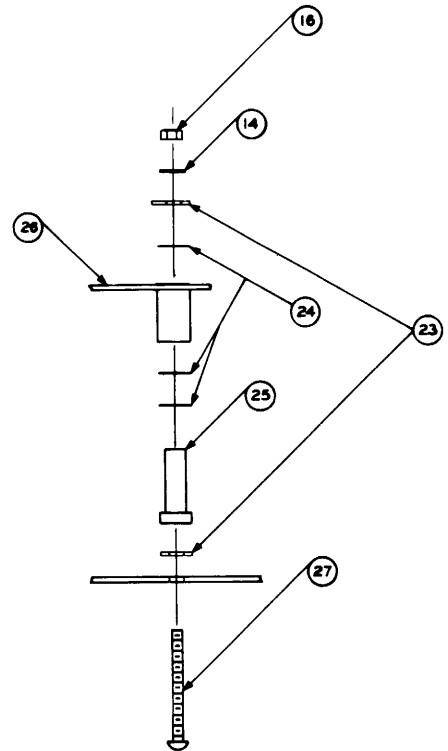


FIG. 2

NOTE : REPLACES ID-5064 AT SER. NO. 48001.

Figure 10. (Continued.)

ITEM	PART NO.	QTY	DESCRIPTION			
1	WW-5069-50	1	BOARD, ETCHED CKT			
2	WW-5076-31	1	PLUG, 15PIN			
3	WW-3243-9	5	SOCKET, TRANSISTOR			
T-4	WW-3838-19	1	COIL, OSCILLATOR			
Q-1,2,3	WW-4614-37	3	TRANSISTOR			
Q-4,5	WW-4514-37	2	TRANSISTOR, 2N1377			
4	WW-1723-25	1	WIRE #22 BUS (REFER TO FIG. 12 ITEM 03)			

ITEM	PART NO.	QTY	RESISTORS			
R-1	WW-1841-6	1	RESISTOR, 100K Ω 1/2W			
R-2	WW-1834-6	1	RESISTOR, 10K Ω 1/2W			
R-3	WW-1829-6	1	RESISTOR, 1000 Ω 1/2W			
R-4	WW-4161-6	1	RESISTOR, 68 Ω 1/2W			
R-5	WW-1833-6	1	RESISTOR, 6800 Ω 1/2W			
R-6	WW-1841-6	1	RESISTOR, 100K Ω 1/2W			
R-7	WW-1841-6	1	RESISTOR, 100K Ω 1/2W			
R-8	WW-1834-6	1	RESISTOR, 10K Ω 1/2W			
R-9	WW-1829-6	1	RESISTOR, 1000 Ω 1/2W			
R-10	WW-1833-6	1	RESISTOR, 6800 Ω 1/2W			
R-11						
R-12	WW-1834-6	1	RESISTOR, 10K Ω 1/2W			
R-13	WW-2748-6	1	RESISTOR, 470 Ω 1/2W			
R-14						
R-15	WW-1854-6	1	RESISTOR, 2200 Ω 1/2W			
R-16	WW-4188-6	1	RESISTOR, 22 Ω 1/2W			
R-17	WW-1841-6	1	RESISTOR, 100K Ω 1/2W			
R-18	WW-1841-6	1	RESISTOR, 100K Ω 1/2W			
R-19	WW-1854-6	1	RESISTOR, 2200 Ω 1/2W			
R-20	WW-4188-6	1	RESISTOR, 22 Ω 1/2W			

ITEM	PART NO.	QTY	CAPACITORS			
C-1	WW-4133-18	1	CAP ELECT 50MF 15V			
C-2	WW-3281-18	1	CAP ELECT 10MF 25V			
C-3	WW-3974-17	1	CAP PAPER .1MF 100V			
C-4	WW-4133-18	1	CAP ELECT 50MF 15V			
C-5	WW-4032-17	1	CAP PAPER .01MF 100V			
C-6	WW-3281-18	1	CAP ELECT 10MF 25V			
C-7	WW-3281-18	1	CAP ELECT 10MF 25V			
C-8	WW-3969-17	1	CAP PAPER .022MF 100V			
C-9	WW-3969-17	1	CAP PAPER .022MF 100V			
C-10	WW-4142-17	1	CAP PAPER .45MF 100V			
C-11	WW-3281-18	1	CAP ELECT 10MF 25V			
C-12	WW-1532-17	1	CAP MICA .360MF 500V			
C-13	WW-1533-17	1	CAP .01MF 600V DISC			

TO ORDER COMPLETE CIRCUIT BOARD ASSEMBLY
ORDER NUMBER I-5152

NOTES: 1. REVISION A. EFFECTIVE SERIAL NO.48501

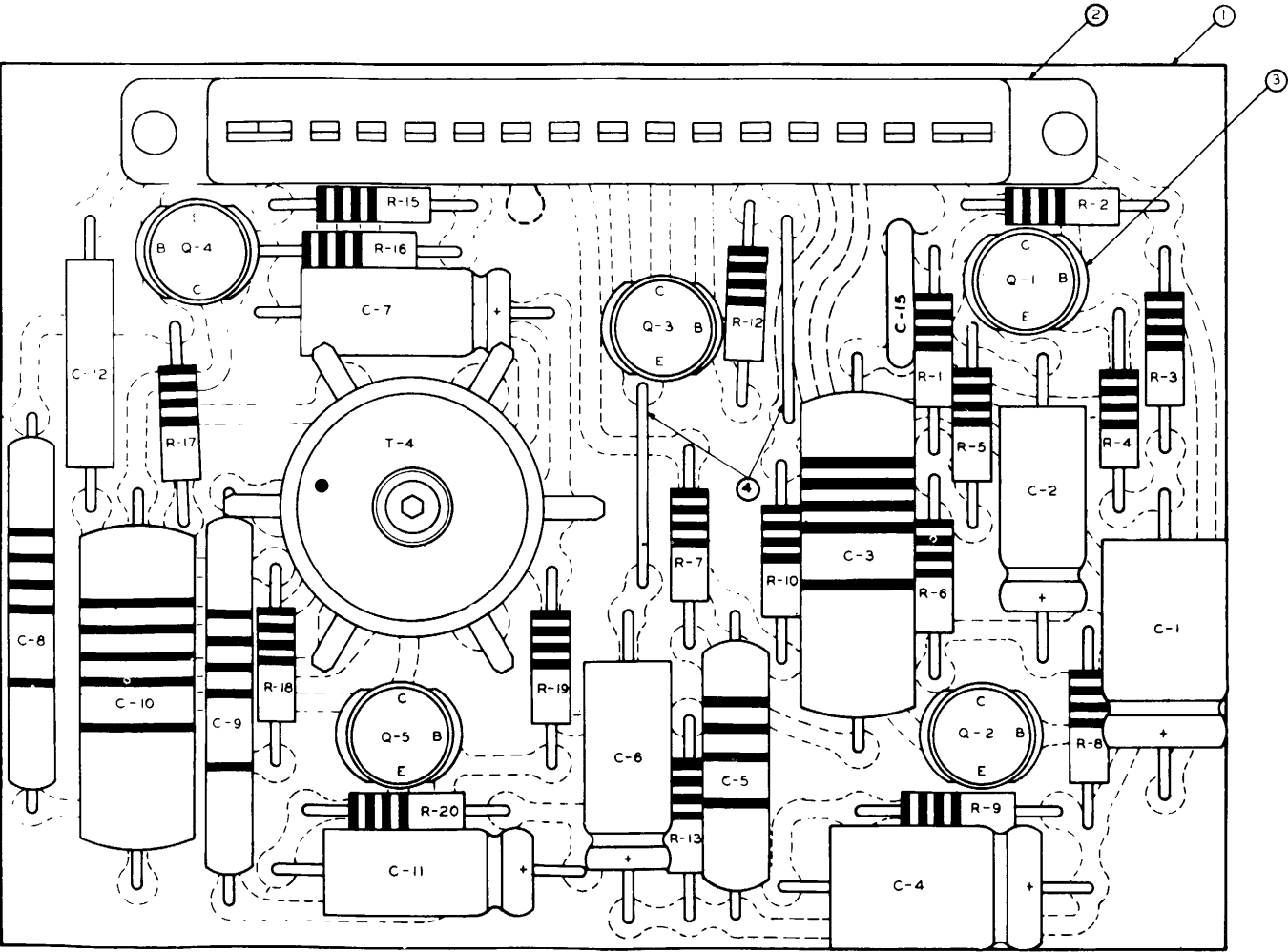


Figure 11. Circuit board assembly, WW-5152-1D (part of final assembly, figure 1).

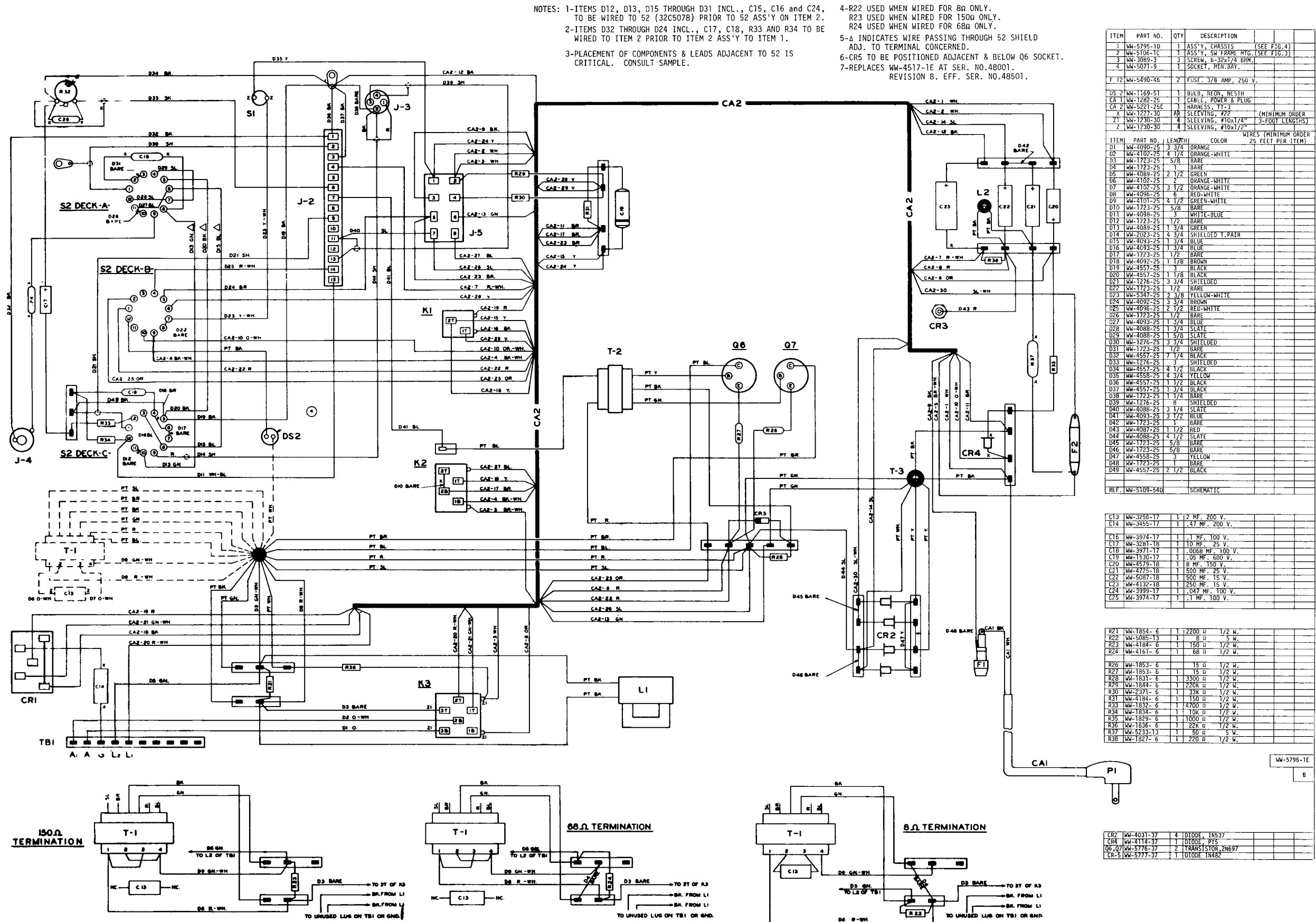


Figure 12. Wiring-chassis assembly, WW-5796-1E
(part of final assembly, figure 1).